

# Converting Colors

$Y_{xy}(49.7015, 0.2969, 0.3440)$

Have a look what the booklet for  
Yxy(49.7015, 0.2969, 0.3440)  
contains.

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# Color

**Yxy(49.7890, 0.2964, 0.3437)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A3C2B7
RGB	163, 194, 183
RGB Percent	64%, 76%, 72%
CMY	0.3609, 0.2392, 0.2824
CMYK	0.16, 0.00, 0.06, 0.24
HSL	159°, 20%, 70%
HSV	159°, 16%, 76%
XYZ	42.9370, 49.7890, 52.1358
YIQ	183.4770, -14.9450, -9.9930

# Conversions

## Conversions Part 2

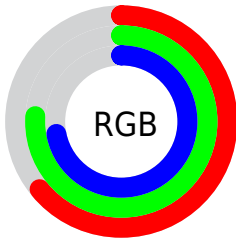
Format	Color
R <sub>Y</sub> B	163, 182, 194
Decimal	10732215
CIE Lab	75.94, -12.64, 2.05
CIE LCh	76, 12.807, 170.790
Yxy	49.7890, 0.2964, 0.3437
Android (android.graphics.Color)	4288922295 (0xFFA3C2B7)
YUV	183.4770, -0.2352, -17.9583
Hunter-Lab	70.5613, -14.8639, 5.5852

# Details

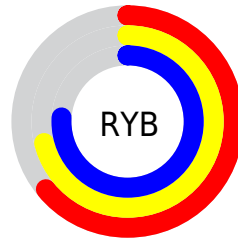
The Yxy color **49.7890, 0.2964, 0.3437** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **40.7116, 0.3323, 0.3148**, and the grayscale version is **47.6347, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.1318, 0.2992, 0.3414**, and **23.7474, 0.2920, 0.3474** is the 20% darker color. If you saturate the color by 10%, you get **47.6181, 0.2868, 0.3541**, and if you desaturate by 10%, it is **52.2923, 0.3065, 0.3342**.

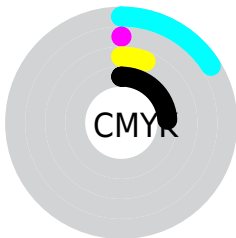
# Distribution



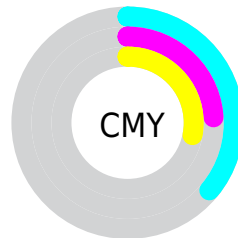
- Red (64%)
- Green (76%)
- Blue (72%)



- Red (64%)
- Yellow (71%)
- Blue (76%)



- Cyan (16%)
- Magenta (0%)
- Yellow (6%)
- Black (24%)




- Cyan (36%)
- Magenta (24%)
- Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.7890, 0.2964, 0.3437 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 49.7890, 0.2964, 0.3437 by changing the saturation by 10% instead.




 49.7890, 0.2964,  
0.3437


 49.7890, 0.2964,  
0.3437


385.8402, 0.3045,  
0.3364

 35.2458, 0.2944,  
0.3455

 89.8622, 0.2993,  
0.3410

 23.8523, 0.2918,  
0.3479


 116.1609, 0.3004,  
0.3400

 15.2241, 0.2884,  
0.3510


147.1469, 0.3014,  
0.3392

 8.9768, 0.2837,  
0.3553

183.2046, 0.3022,  
0.3385

 4.7260, 0.2767,  
0.3619

224.7184, 0.3029,  
0.3378

 2.0874, 0.2653,  
0.3726

272.0727, 0.3035,

 0.6575, 0.2046,

0.3373

0.4252

325.6518, 0.3040,  
0.3368

0.0000, 0.0000,  
0.0000

49.7890, 0.2964,  
0.3437

49.7890, 0.2964,  
0.3437

47.6181, 0.2868,  
0.3541

52.2923, 0.3065,  
0.3342

45.7589, 0.2780,  
0.3655

55.1353, 0.3169,  
0.3257

44.1978, 0.2704,  
0.3777

58.3328, 0.3273,  
0.3181

42.9179, 0.2641,  
0.3906

61.8971, 0.3377,  
0.3114

41.9006, 0.2596,  
0.4040

64.8830, 0.3439,  
0.3051

■ 41.1247, 0.2569,  
0.4177

■ 65.2504, 0.3385,  
0.2983

■ 40.5659, 0.2563,  
0.4313

■ 65.6330, 0.3331,  
0.2915

■ 40.1933, 0.2576,  
0.4448

■ 66.0309, 0.3279,  
0.2849

■ 40.0716, 0.2584,  
0.4502

■ 66.4444, 0.3227,  
0.2784

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



49.7890, 0.3133, 0.3557



49.7890, 0.2964, 0.3437



49.7890, 0.2840, 0.3276

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



49.7890, 0.2964, 0.3437



49.7890, 0.2946, 0.2996



49.7890, 0.3474, 0.3440

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



49.7890, 0.2964, 0.3437



40.7116, 0.3323, 0.3148

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



49.7890, 0.3422, 0.3293



49.7890, 0.2964, 0.3437



49.7890, 0.3113, 0.3041

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



49.7890, 0.2964, 0.3437



49.7890, 0.2830, 0.3024



49.7890, 0.3288, 0.3149



49.7890, 0.3431, 0.3554



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.7890, 0.2964, 0.3437



49.7890, 0.2799, 0.3172



49.7890, 0.3288, 0.3149



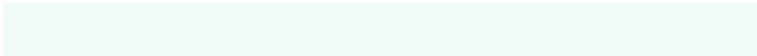
49.7890, 0.3467, 0.3393

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



49.7911, 0.2964, 0.3437



95.1739, 0.3075, 0.3334



50.2721, 0.3200, 0.3703



20.7657, 0.3067, 0.3340



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

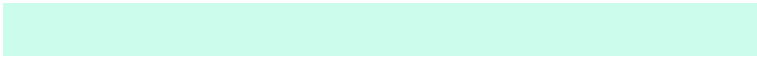


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



49.7911, 0.2964, 0.3437



88.8312, 0.2932, 0.3470



48.4517, 0.2886, 0.3235



11.3657, 0.3031, 0.3373



26.3580, 0.2579, 0.4484



1.1516, 0.2496, 0.4185



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



40.7116, 0.3323, 0.3148



69.4448, 0.3372, 0.3117



41.7924, 0.3417, 0.3345



10.1357, 0.3234, 0.3208



7.8371, 0.5530, 0.2820

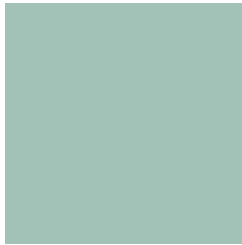


0.3518, 0.4906, 0.2476



# Previews

## White Background



This preview shows how the Yxy color 49.7890, 0.2964, 0.3437 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

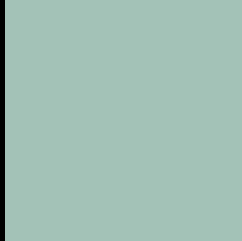
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.7890, 0.2964, 0.3437 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

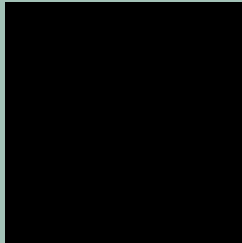
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

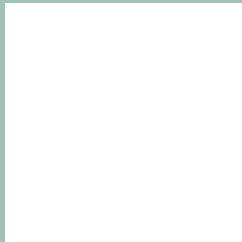
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.7890, 0.2964, 0.3437**

## Background



This preview shows how black text looks on a background with the Yxy color 49.7890, 0.2964, 0.3437.



This preview shows how white text looks on a background with the Yxy color 49.7890, 0.2964, 0.3437.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

49.7890, 0.2964, 0.3437

### Protanopia

49.5790, 0.3233, 0.3379

### Deuteranopia

49.5721, 0.3294, 0.3230



## Tritanopia

49.9333, 0.2834, 0.3096

# Trichromacy



## Original Color

49.7890, 0.2964, 0.3437

## Protanomaly

49.5142, 0.3130, 0.3407

## Deuteranomaly

49.5677, 0.3168, 0.3303

## Tritanomaly

49.8835, 0.2882, 0.3211

# Monochromacy



## Original Color

49.7890, 0.2964, 0.3437

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

48.1897, 0.3067, 0.3342

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.7890, 0.2964, 0.3437 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(163, 194, 183)` looks like.

```
.text, #text, p{  
    color:rgb(163, 194, 183)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(163, 194, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 194, 183) }
```

## Border

The CSS property to change the border of an element to Yxy 49.7890, 0.2964, 0.3437 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(163, 194, 183) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(163, 194, 183) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(163, 194, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 194, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 194, 183);  
box-shadow:4px 4px 4px 4px rgb(163, 194,  
183) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.7890, 0.2964, 0.3437 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 194, 183) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(163,  
194, 183) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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